### **ENVIRONMENTAL CHEMISTS**

Date of Report: 09/10/98 Date Received: 08/28/98

Project: Metro Self Monitor, PO# M76998

Date Samples Extracted: 09/04/98 Date Extracts Analyzed: 09/08/98

# RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

# Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M76998	0.97	0.94	1.2	0.08
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

### **ENVIRONMENTAL CHEMISTS**

Date of Report: 09/10/98 Date Received: 08/28/98

Project: Metro Self Monitor, PO# M76998

# QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 8080110-01 (Duplicate)

				Relative	
	Reporting	Sample	Duplicate	Percent	Acceptance
Analyte	Units	Result	Result	Difference	Criteria
Chromium	mg/L (ppm)	0.97	0.93	4	0-20
Copper	mg/L (ppm)	0.94	0.92	2	0-20
Nickel	mg/L (ppm)	1.2	1.2	0	0-20
Zinc	mg/L (ppm)	0.08	0.08	0	0-20

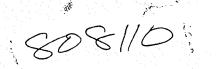
Laboratory Code: 808110-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recove	ry % Recove:	ry Acceptance	
Analyte	Units	Level	Result	MS	MSD	Criteria	RPD
Chromium	mg/L (ppm)	5	0.97	107	111	80-120	4
Copper	mg/L (ppm)	5	0.94	104	107	80-120	3
Nickel	mg/L (ppm)	10	1.2	108	109	80-120	1
Zinc	mg/L (ppm)	5	0.08	114	112	80-120	2

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	e % Recove	ery % Recov	ery Acceptanc	e		
Analyte	Units	Leve	l LCS	LCSD	Criteria	130	RPD	
Chromium	mg/L (ppm)	5	107	108	80-120	40.4	1	11 (1)
Copper	mg/L (ppm)	5	107	106	80-120		1	
Nickel	mg/L (ppm)	10	109	110	80-120		1	
Zinc	mg/L (ppm)	5	111	114	80-120		3	

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282



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# SAMPLE CHAIN OF CUSTODY

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FORMS/COC

08/13/98

### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 10, 1998

### DUPLICATE COPY

### **INVOICE #98ACU0910-2**

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M76998: Results of testing requested by Gerry Thompson for material submitted on August 28, 1998.

1 water sample analyzed for
Chromium, Copper, Nickel, and Zinc
using Method 6010 @ \$65 per sample

Amount Due \$65.00

FEDERAL TAX ID (b) (6)

#### **ENVIRONMENTAL CHEMISTS**

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 10, 1998

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 28, 1998 from your Metro Self Monitor, PO# M76998 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Maruel Marti Project Manager

Enclosures ACU0910R.DOC